

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) In a device having a transceiver, a method for monitoring the integrity of a wireless connection, said method comprising ~~the steps of~~:

a) receiving a number of data packets transmitted over said wireless connection;

b) indicating whether any of said data packets were not successfully received in said step a);

c) receiving retransmitted data packets, said retransmitted data packets comprising said data packets not successfully received in said step a); ~~and~~

d) ~~determining a measure of data packet transfer integrity, wherein said measure is sufficient for determining said a first~~ number of data packets received in said step a) ~~relative to a total and a second~~ number of data packets retransmitted received in said step steps a) and c); and

e) determining a measure of data packet transfer integrity based on said first number and said second number.

2. (Original) The method as recited in Claim 1 wherein said transceiver is a Bluetooth-enabled device.

3. (Currently Amended) The method as recited in Claim 1 further comprising ~~the step of~~:

providing an indication of said measure of data packet transfer integrity to a user.

4. (Original) The method as recited in Claim 3 wherein said indication provided to said user is a visual display.

5. (Original) The method as recited in Claim 3 wherein said indication provided to said user is an audio indication.

6. (Currently Amended) The method as recited in Claim 1 further comprising ~~the step of:~~

AI providing an indication of said measure of data packet transfer integrity to an intelligent device, said intelligent device comprising a processor adapted to interpret said indication and execute instructions in response to said indication.

7. (Currently Amended) The method as recited in Claim 1 further comprising ~~the steps of:~~

sending an acknowledge signal for each data packet received, said acknowledge signal indicating whether a data packet was successfully received;

counting acknowledge signals associated with data packets successfully received in said step a) to determine said first number; and

counting acknowledge signals associated with said data packets retransmitted in said step c) to determine said second number. [;]] and

~~determining said measure of data packet transfer integrity using said counting.~~

8. (Currently Amended) The method as recited in Claim 1 further reciting ~~the steps of:~~

counting data packets having a same sequence number to determine said second number, wherein said same sequence number is included in each data packet received in said step a) and in a respective retransmitted data packet received in said step c), ~~[[;]] and~~

~~determining said measure of data packet transfer integrity using said counting.~~

Al 9. (Currently Amended) The method as recited in Claim 1 further comprising ~~the steps of:~~

performing a cyclic redundancy check, said cyclic redundancy check for determining whether a data packet was successfully received; and

counting a number of instances in which data packets fail said cyclic redundancy check to determine said second number.

~~determining said measure of data packet transfer integrity using results from said cyclic redundancy check.~~

10. (Currently Amended) The method as recited in Claim 1 further comprising ~~the steps of:~~

performing a header error check, said header error check for determining whether header information in a data packet was successfully received; and

counting a number of instances in which data packets fail said header error check to determine said second number.

~~determining said measure of data packet transfer integrity using results from said header error check.~~

11. (Currently Amended) The method as recited in Claim 1 further comprising ~~the steps of:~~

determining a measure of signal strength for said wireless connection; and

using said measure of signal strength in said step ~~e) d).~~

12. (Currently Amended) In a device having a transceiver, a method for monitoring the integrity of a wireless connection, said method comprising ~~the steps of:~~

a) transmitting a number of data packets over said wireless connection;

b) receiving an acknowledge signal for each data packet, said acknowledge signal indicating whether a data packet was successfully received;

c) retransmitting any data packets not successfully received in said step a); ~~and~~

d) ~~determining a measure of data packet transfer integrity, wherein said measure is sufficient for determining said a first number of data packets transmitted in said step a) relative to total and a second number of data packets transmitted in said~~ step steps a) and c); and

e) determining a measure of data packet transfer integrity based on said first number and said second number.

13. (Original) The method as recited in Claim 12 wherein said transceiver is a Bluetooth-enabled device.

14. (Currently Amended) The method as recited in Claim 12 further comprising ~~the step of~~:

providing an indication of said measure of data packet transfer integrity to a user.

15. (Original) The method as recited in Claim 14 wherein said indication provided to said user is a visual display.

16. (Original) The method as recited in Claim 14 wherein said indication provided to said user is an audio indication.

17. (Currently Amended) The method as recited in Claim 12 further comprising ~~the step of~~:

providing an indication of said measure of data packet transfer integrity to an intelligent device, said intelligent device comprising a processor adapted to interpret said indication and execute instructions in response to said indication.

18. (Canceled).

19. (Currently Amended) The method as recited in Claim 12 further comprising ~~the steps of:~~

counting acknowledge signals associated with data packets successfully transmitted in said step a) to determine said first number;

counting acknowledge signals associated with said data packets retransmitted in said step c) to determine said second number. ~~[[;]] and~~

~~determining said measure of data packet transfer integrity using said counting.~~

20. (Currently Amended) The method as recited in Claim 12 further reciting ~~the steps of:~~

counting data packets having a same sequence number to determine said second number, wherein said same sequence number is included in each data packet transmitted in said step a) and in a respective data packet retransmitted in said step c), ~~[[;]] and~~

~~determining said measure of data packet transfer integrity using said counting.~~

21. (Currently Amended) A transceiver comprising:

a module for transmitting and receiving data packets via a wireless connection; and

a central processing unit coupled to said module;

said transceiver adapted to determine whether said data packets were successfully received in a first-occurring transmission, wherein data packets not successfully received are received in a subsequent transmission;

said transceiver further adapted to determine a measure of data packet transfer integrity, wherein said measure is sufficient for determining a number of data packets successfully received in said first-occurring transmission and ~~relative to~~ a total number of data packets received in said first-occurring transmission and said subsequent transmission.

22. (Original) The transceiver of Claim 21 wherein said module is a Bluetooth-enabled device.

23. (Original) The transceiver of Claim 21 further comprising:
an indicator unit adapted to provide an indication of said measure of data packet transfer integrity to a user.

24. (Original) The transceiver of Claim 23 wherein said indicator unit provides a visual display of said measure of data packet transfer integrity.

25. (Original) The transceiver of Claim 23 wherein said indicator unit provides an audio indication of said measure of data packet transfer integrity.

26. (Original) The transceiver of Claim 21 wherein an indication of said measure of data packet transfer integrity is provided to an intelligent device communicatively coupled to said transceiver, said intelligent device

comprising a processor adapted to interpret said indication and execute instructions in response to said indication.

27. (Original) The transceiver of Claim 21 wherein said transceiver is adapted to perform a first count of acknowledge signals associated with said data packets successfully received in said first-occurring transmission and a second count of acknowledge signals associated with said data packets received in said subsequent transmission, said acknowledge signals for indicating whether a data packet was successfully received;

wherein said transceiver determines said measure of data packet transfer integrity using said first count and said second count.

28. (Original) The transceiver of Claim 21 wherein said transceiver is adapted to count data packets having a same sequence number, wherein said same sequence number is included in each data packet received in said first-occurring transmission and in a respective data packet received in said subsequent transmission;

wherein said transceiver determines said measure of data packet transfer integrity using said count.

29. (Original) The transceiver of Claim 21 wherein said transceiver is adapted to perform a cyclic redundancy check, said cyclic redundancy check for determining whether a data packet was successfully received;

wherein said transceiver determines said measure of data packet transfer integrity using results from said cyclic redundancy check.

30. (Canceled).

31. (Original) The transceiver of Claim 21 wherein said transceiver is adapted to perform a header error check, said header error check for determining whether header information in a data packet was successfully received;

wherein said transceiver determines said measure of data packet transfer integrity using results from said header error check.

32. (Original) The transceiver of Claim 21 wherein said transceiver is adapted to determine a measure of signal strength for said wireless connection, wherein said measure of data packet transfer integrity comprises said measure of signal strength.
